

ABSTRACT OF THE DISCLOSURE

A radiation detector of this invention includes a scintillator for converting an X-ray incident from a surface side into light, at least one photodiode chip having a plurality of photodiodes for converting the converted light into electrical signals, at least one switching chip having a plurality of switching elements for reading out a plurality of signals from the plurality of photodiodes, and at least one data acquisition chip having a plurality of data acquisition systems for amplifying the plurality of readout signals and converting the signals into digital signals. The photodiode chip, the switching chip, and the data acquisition chip are commonly mounted on a rigid multilayer wiring board.